

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BCP103	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/FI 2004/000717	International filing date (<i>day/month/year</i>) 26 November 2004	(Earliest) Priority Date (<i>day/month/year</i>) 9 December 2003
Applicant Biocis Pharma Oy et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

The use of urocanic acid being able to acidify the cell cytoplasm and for preventing or halting cellular proliferation in a person.

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. - -

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 1, 2, 11, 12 and partly 6-10, 15
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

Present claims 1, 2, 11, 12 and partly 6-10, 15 relate to compounds defined by reference to a desirable characteristic

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

Box II.2

or property, namely "being able to acidify the cell cytoplasm" and "for preventing or halting cellular proliferation in a person". The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and / or disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compound by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compound urocanic acid (UCA) (cis-, or trans form) which is the only compound mentioned in claims 3-5 and 13-14 and in the description.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000717

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61K 31/415, A61P 35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61K, A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, CHEM ABS DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	STN International, File MEDLINE, MEDLINE accession no. 85169892, document no. 3984264, Burobin V A et al, "Biological activity of urocanic acid"; & Voprosy meditsinskoi khimii, 1985 Jan-Feb, 31(1) p 102-6 --	1-10,15
P,X	WO 2004080456 A1 (BIOCIS PHARMA OY), 23 Sept 2004 (23.09.2004) --	11-15
A	US 6028098 A (GOODMAN ET AL), 22 February 2000 (22.02.2000) --	1-15

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

13 April 2005

Date of mailing of the international search report

20-04-2005

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 2004/000717

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6372199 B1 (GERS-BARLAG ET AL), 16 April 2002 (16.04.2002) --	1-15
A	US 5995869 A (CORMIER ET AL), 30 November 1999 (30.11.1999) --	1-15
A	EP 0612525 A1 (BRISTOL-MYERS SQUIBB COMPANY), 31 August 1994 (31.08.1994) --	1-15
A	DE 4121030 A1 (BEIERSDORF AG), 2 January 1992 (02.01.1992) -- -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

01/04/2005

International application No.

PCT/FI 2004/000717

WO	2004080456	A1	23/09/2004	FI	6065 U	30/12/2003
				FI	20030379 D,V	16/10/2003
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US	6028098	A	22/02/2000	AU	6380194 A	24/10/1994
				AU	7885998 A	08/10/1998
				CA	2159447 A	13/10/1994
				EP	0691845 A	17/01/1996
				GB	2291594 A,B	31/01/1996
				GB	2313058 A,B	19/11/1997
				GB	2313059 A,B	19/11/1997
				GB	2313546 A,B	03/12/1997
				GB	9306473 D	00/00/0000
				GB	9519866 D	00/00/0000
				GB	9717155 D	00/00/0000
				GB	9717156 D	00/00/0000
				GB	9717157 D	00/00/0000
				JP	8508474 T	10/09/1996
				NZ	263202 A	24/04/1997
				SG	70568 A	22/02/2000
				WO	9422441 A	13/10/1994
				ZA	9402210 A	29/05/1996
				EP	0738278 A	23/10/1996
				GB	9400650 D	00/00/0000
				JP	9508012 T	19/08/1997
				US	5874267 A	23/02/1999
				US	20020048816 A	25/04/2002
				WO	9519371 A	20/07/1995
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US	6372199	B1	16/04/2002	DE	19817295 A	21/10/1999
				DE	59909961 D	00/00/0000
				EP	1071394 A,B	31/01/2001
				SE	1071394 T3	
				JP	2002512179 T	23/04/2002
				WO	9953895 A	28/10/1999
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US	5995869	A	30/11/1999	AU	3309097 A	07/01/1998
				WO	9747355 A	18/12/1997
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EP	0612525	A1	31/08/1994	AT	205713 T	15/10/2001
				AU	686123 B	05/02/1998
				AU	5635094 A	01/09/1994
				CA	2114968 A	26/08/1994
				DE	69428295 D,T	20/06/2002
				JP	7002670 A	06/01/1995
				MX	9401331 A	31/08/1994
				US	5843979 A	01/12/1998
				ZA	9400856 A	05/09/1994
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INTERNATIONAL SEARCH REPORT

Information on patent family members

01/04/2005

International application No.

PCT/FI 2004/000717

DE	4121030	A1	02/01/1992	AT	126058	T	15/08/1995
				DE	59106201	D	00/00/0000
				EP	0467116	A,B	22/01/1992
				ES	2075272	T	01/10/1995
				JP	3041365	B	15/05/2000
				JP	4230321	A	19/08/1992
				US	5455036	A	03/10/1995
				US	5494676	A	27/02/1996
